



19AU4

19AU4

HALF-WAVE VACUUM RECTIFIER

*Intended for TV damper service in equipment
having series heater-string arrangement*

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 18.9 ac or dc volts
Current. 0.6 amp
Warm-up time (Average) 11 sec

*For definition of heater warm-up time and method of determining
it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of
this Section.*

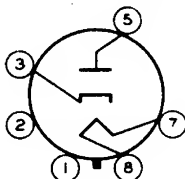
Direct Interelectrode Capacitances (Approx.):^o

Plate to heater and cathode. 8.5 μf
Cathode to heater and plate. 11.5 μf
Heater to cathode. 4 μf

Mechanical:

Mounting Position. Any
Maximum Overall Length 3-13/16"
Maximum Seated Length. 3-1/4"
Maximum Diameter 1-9/32"
Dimensional Outline. See General Section
Bulb T-9
Base Short Intermediate-Shell Octal 5-Pin
with External Barriers (JETEC No. B5-85),
or Short Intermediate-Shell Octal 6-Pin
with External Barriers (JETEC No. B6-60)
Basing Designation for BOTTOM VIEW 4CG

Pin 1♦—Same as
Pin 2
Pin 2 —No Connec-
tion—Do
Not Use•



Pin 3—Cathode
Pin 5—Plate
Pin 7—Heater
Pin 8—Heater

DAMPER SERVICE**Maximum Ratings, Design-Center Values Except as Noted:***For operation in a 525-line, 30-frame system[□]*

PEAK INVERSE PLATE VOLTAGE
(Absolute maximum)*. 4500[■] max. volts
PEAK PLATE CURRENT 1050 max. ma
DC PLATE CURRENT 175 max. ma
PLATE DISSIPATION. 6 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode
(Absolute maximum) 4500^{■▲} max. volts
Heater positive with respect to cathode. 300[#] max. volts

^o Without external shield.

♦ on the 5-pin base, pin 1 as well as pins 4 and 6 is omitted.

•, □, *, ■, ▲, #: See next page.

19AU4



19AU4

HALF-WAVE VACUUM RECTIFIER

- Socket terminals 1, 2, 4, and 6 should not be used as tie points.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- * This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- Under no circumstances should this absolute value be exceeded.
- ▲ The dc component must not exceed 900 volts (Absolute maximum).
- * The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC

